What Is Claimed Is:

1.   A method of generating a compressed message from a full message comprising the steps of:

5   receiving a full message;

retrieving a URL in a field of the message;

obtaining information corresponding to the URL from a database;

building static and default dictionaries from the information; and

deleting information in the full message that matches information in the

10   static and default dictionaries to generate the compressed message.

2.   The method of claim 1 wherein the full message is a Request downlink message and the step of retrieving a URL in a field of the message comprises retrieving the URL in the To field of the message.

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3.   The method of claim 1 wherein the full message is a Response downlink message and the step of retrieving a URL in a field of the message comprises retrieving the URL in the From field of the message.

20   4.   The method of claim 1 further comprising the step of appending a context ID to the compressed SIP message.

5.   A method of generating a compressed message from a full message in a mobile station that has registered with a network via a Register message, the method comprising the steps of:

     generating a full message;

     building static and default dictionaries containing information from the Register message; and

     deleting information in the full message that matches the information in the static and default dictionaries to generate the compressed message.

6.   A method of generating a full message from a compressed message comprising the steps of:

receiving a compressed message;

retrieving a URL in a field of the message;

obtaining information corresponding to the URL from a database;

building static and default dictionaries from the information;

adding information from the static dictionary to the information in the compressed message to produce an interim full message; and

adding information from the default dictionary to the interim full message to produce the full message.

7.   The method of claim 6 wherein the step of adding information from the default dictionary comprises for each field in the default dictionary, adding the field to the interim full message only when the field is missing from the compressed message.

8.   The method of claim 6 wherein the compressed message is a Request uplink message and the step of retrieving a URL in a field of the message comprises retrieving the URL in the From field of the message.

9.   The method of claim 6 wherein the compressed message is a Response uplink message and the step of retrieving a URL in a field of the message comprises retrieving the URL in the To field of the message.

10.   A method of generating a full message from a compressed message in a mobile station that has registered with a network, the method comprising the steps of:

5   receiving a compressed message;

retrieving registration information from a static dictionary and a default dictionary;

adding information from the static dictionary to the information in the compressed message to produce an interim full message; and

10   adding information from the default dictionary to the interim full message to produce the full message.

11.   The method of claim 10 wherein the step of adding information from the default dictionary comprises for each field in the default dictionary, adding

15   the field to the interim full message only when the field is missing from the compressed message.

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